

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

- 1 1. (Currently amended) A computer-implemented method for concurrently
2 accepting parameters in at least two contexts, the method comprising:
3 accepting a keystroke sequence comprising at least one keystroke, each
4 keystroke having a first value, and at least a subset of the key-
5 strokes having a second value;
6 determining whether the keystroke sequence produces a valid result in
7 a first context;
8 responsive to the keystroke sequence producing a valid result in the
9 first context, outputting first feedback, the first feedback indicat-
10 ing keystroke input according to the first context; and
11 responsive to the keystroke sequence not producing a valid result in the
12 first context:
13 determining whether the keystroke sequence produces a valid
14 result in a second context; and
15 responsive to the keystroke sequence producing a valid result in
16 the second context, outputting second feedback, the sec-
17 ond feedback indicating keystroke input according to the
18 second context.

1 2. (Currently amended) The method of claim 1, further comprising:

2 responsive to the keystroke sequence producing a valid result in the

3 first context, performing a first action operation corresponding

4 to the first context, using the first value for each keystroke; and

5 responsive to the keystroke sequence not producing a valid result in the

6 first context and producing a valid result in the second context,

7 performing a second action corresponding to the second context,

8 using the second value for each keystroke.

1 3. (Canceled)

1 4. (Original) The method of claim 1, wherein:

2 the first feedback indicates the first value for each keystroke; and

3 the second feedback indicates the second value for each keystroke.

1 5. (Original) The method of claim 1, wherein the first feedback comprises vis-
2 ual feedback and the second feedback comprises visual feedback.

1 6. (Original) The method of claim 1, further comprising:

2 responsive to the keystroke sequence not producing a valid result in the

3 first context and in the second context, outputting an invalidity

4 indicator.

1 7. (Original) The method of claim 6, wherein outputting an invalidity indica-
2 tor comprises outputting an auditory invalidity indicator.

1 8. (Original) The method of claim 6, wherein outputting an invalidity indica-
2 tor comprises outputting a visual invalidity indicator.

1 9. (Original) The method of claim 1, wherein at least one of the contexts com-
2 prises accepting input for a directory filtering operation on a plurality of directory
3 records.

1 10. (Original) The method of claim 9, wherein the first context comprises ac-
2 cepting input for a directory filtering operation on a plurality of directory records.

1 11. (Original) The method of claim 10, wherein the directory filtering opera-
2 tion is iterative.

1 12. (Original) The method of claim 10, further comprising:
2 responsive to the keystroke sequence producing a valid result in the
3 first context, performing the directory filtering operation using
4 the first value for each of the accepted keystrokes.

1 13. (Currently amended) The method of claim 10, further comprising:

2 responsive to the keystroke sequence producing a valid result in the

3 first context, performing the directory filtering operation using

4 the accepted keystrokes;

5 wherein determining whether the keystroke sequence produces a valid

6 result in a first context comprises determining whether the per-

7 formed directory filtering operation produces at least one valid

8 result for the keystroke sequence.

1 14. (Original) The method of claim 10, further comprising:

2 responsive to the keystroke sequence producing a valid result in the

3 first context, performing the directory filtering operation using

4 the accepted keystrokes;

5 wherein each directory record comprises contents, and wherein per-

6 forming the directory filtering operation comprises comparing

7 the keystroke sequence with the contents of at least one directory

8 record.

1 15. (Original) The method of claim 14, wherein the first feedback comprises

2 at least one matching directory record.

1 16. (Original) The method of claim 10, further comprising:

responsive to the keystroke sequence producing a valid result in the
first context, performing the directory filtering operation using
the accepted keystrokes;
wherein each directory record comprises at least one field value, and
wherein the directory filtering operation comprises comparing
the keystroke sequence with at least one field value in at least
one directory record.

17. (Original) The method of claim 16, wherein the first feedback comprises
at least one matching directory record.

18. (Currently amended) The method of claim 10, further comprising:
responsive to the keystroke sequence producing a valid result in the
first context, performing the directory filtering operation using
the accepted keystrokes;
wherein the directory filtering operation comprises comparing the key-
stroke sequence[[s]] with at least two field values in at least one
directory record.

19. (Original) The method of claim 10, further comprising:
responsive to the keystroke sequence producing a valid result in the
first context, performing the directory filtering operation using
the accepted keystrokes;

5 wherein each directory record comprises at least two field values, and
6 wherein the directory filtering operation comprises comparing
7 the keystroke sequences with at least one value derived from at
8 least one field in at least one directory record.

1 20. (Currently amended) The method of claim 10, further comprising:

2 responsive to the keystroke sequence producing a valid result in the
3 first context, performing the directory filtering operation using
4 the accepted keystrokes;

5 wherein each directory record comprises at least two field values, and
6 wherein the directory filtering operation comprises comparing
7 the keystroke sequences with at least one field value[[s]] in at
8 least one directory record and with at least one value derived
9 from at least one field in at least one directory record.

1 21. (Original) The method of claim 10, wherein the first feedback comprises
2 at least one matching directory record.

1 22. (Original) The method of claim 1, further comprising:

2 accepting an additional keystroke, the additional keystroke having at
3 least a first value;

4 appending the additional keystroke to the keystroke sequence;

5 repeating the steps of:

6 determining whether the keystroke sequence produces a valid result in
7 a first context;
8 responsive to the keystroke sequence producing a valid result in the
9 first context, outputting first feedback, the first feedback indicat-
10 ing keystroke input according to the first context;
11 responsive to the keystroke sequence not producing a valid result in the
12 first context:
13 determining whether the keystroke sequence produces a
14 valid result in a second context; and
15 responsive to the keystroke sequence producing a valid re-
16 sult in the second context, outputting second feedback,
17 the second feedback indicating keystroke input ac-
18 cording to the second context.

1 23. (Currently amended) The method of claim 1, further comprising:

2 accepting a backspace keystroke;
3 deleting a keystroke from the keystroke sequence;
4 repeating the steps of:
5 determining whether the keystroke sequence produces a valid
6 result in a first context;
7 responsive to the keystroke sequence producing a valid result in
8 the first context, outputting first feedback, the first feed-

9 back indicating keystroke input according to the first con-
10 text; and
11 responsive to the keystroke sequence not producing a valid re-
12 sult in the first context:
13 determining whether the keystroke sequence produces
14 a valid result in a second context; and
15 responsive to the keystroke sequence producing a
16 valid result in the second context, outputting
17 second feedback, the second feedback indicat-
18 ing keystroke input according to the second
19 context.

1 24. (Original) The method of claim 1, wherein at least one of the contexts
2 comprises accepting input for a direct entry operation.

1 25. (Original) The method of claim 24, wherein the first context comprises ac-
2 cepting input for a direct entry operation.

1 26. (Original) The method of claim 25, wherein the direct entry operation
2 comprises a telephone number direct entry operation.

1 27. (Original) The method of claim 25, wherein determining whether the key-
2 stroke sequence produces a valid result in a first context comprises determining
3 whether all of the accepted keystrokes have a numeric value.

1 28. (Original) The method of claim 25, further comprising:

2 responsive to the keystroke sequence producing a valid result in the
3 first context, performing the direct entry operation using the first
4 value for each of the accepted keystrokes.

1 29. (Original) The method of claim 25, further comprising:

2 responsive to the keystroke sequence producing a valid result in the
3 first context, performing the direct entry operation using the ac-
4 cepted keystrokes.

1 30. (Original) The method of claim 1, wherein the first context comprises ac-
2 cepting input for a directory filtering operation, and the second context comprises
3 accepting input for a direct entry operation.

1 31. (Currently amended) The method of claim 30, further comprising:

2 responsive to the keystroke sequence producing a valid result in the
3 first context, performing the directory filtering operation using
4 the first value for each of the accepted keystrokes; and

5 responsive to ~~responsive to~~ the keystroke sequence not producing a
6 valid result in the first context and producing a valid result in
7 the second context, performing the direct entry operation using
8 the second value for each of the accepted keystrokes.

1 32. (Original) The method of claim 31, wherein:

2 determining whether the keystroke sequence produces a valid result in

3 a first context comprises determining whether the performed di-

4 rectory filtering operation produces at least one valid result for

5 the accepted keystrokes; and

6 determining whether the keystroke sequence produces a valid result in

7 a second context comprises determining whether all of the ac-

8 cepted keystrokes have a numeric value.

1 33. (Original) The method of claim 1, wherein:

2 each first value comprises one selected from the group consisting of a

3 letter and a punctuation symbol; and

4 each second value comprises a number.

1 34. (Original) The method of claim 1, wherein:

2 each first value comprises one selected from the group consisting of a

3 letter and a punctuation symbol; and

4 each second value comprises one selected from the group consisting of

5 a number and a punctuation symbol.

1 35. (Original) The method of claim 1, further comprising:

responsive to at least one of the accepted keystrokes not being valid in
one of the contexts, determining that the other context is in-
tended.

36. (Original) The method of claim 1, further comprising:

responsive to the keystroke sequence not producing a valid result in
one of the contexts, performing an action using the keystroke se-
quence according to the other context.

37. (Currently amended) A computer-implemented method for concurrently
accepting parameters in at least two contexts, the method comprising:

accepting a keystroke sequence comprising at least one keystroke, each
keystroke having a first value, and at least a subset of the key-
strokes having a second value;

determining whether the keystroke sequence produces a valid result in
a first context;

responsive to the keystroke sequence producing a valid result in the
first context: [[,]]

outputting first feedback, the first feedback indicating keystroke
input according to the first context; and

performing a first action corresponding to the first context, using
the first value for each keystroke;

14 determining whether the keystroke sequence produces a valid result in
15 a second context; and
16 responsive to the keystroke sequence producing a valid result in the
17 second context: [[,]]
18 outputting second feedback, the second feedback indicating key-
19 stroke input according to the second context; and
20 performing a second action corresponding to the second context,
21 using the second value for each keystroke.

1 38. (Canceled).

1 39. (Canceled).

1 40. (Original) The method of claim 37, wherein:

2 the first feedback indicates the first value for each keystroke; and
3 the second feedback indicates the second value for each keystroke.

1 41. (Original) The method of claim 37, further comprising:

2 responsive to at least one of the accepted keystrokes being invalid in
3 one of the contexts, deleting feedback indicating keystroke input
4 according to said one of the contexts.

1 42. (Original) The method of claim 37, wherein the first feedback comprises
2 visual feedback and the second feedback comprises visual feedback.

1 43. (Original) The method of claim 42, wherein:

2 outputting the first visual feedback comprises outputting the first vis-

3 ual feedback at a first location on a display screen; and

4 outputting the second visual feedback comprises outputting the second

5 visual feedback at a second location on a display screen.

1 44. (Original) The method of claim 37, wherein the first context comprises ac-

2 cepting input for a directory filtering operation on a plurality of directory records.

1 45. (Original) The method of claim 44, wherein the directory filtering opera-

2 tion is iterative.

1 46. (Original) The method of claim 37, further comprising:

2 accepting an additional keystroke, the additional keystroke having at

3 least a first value;

4 appending the additional keystroke to the keystroke sequence;

5 repeating the steps of determining whether the keystroke sequence pro-

6 duces a valid result in a first context, and, responsive to the key-

7 stroke sequence producing a valid result in the first context, out-

8 putting first feedback, the first feedback indicating keystroke in-

9 put according to the first context; and

10 repeating the steps of determining whether the keystroke sequence pro-

11 duces a valid result in a second context, and, responsive to the

12 keystroke sequence producing a valid result in the second con-
13 text, outputting second feedback concurrently with the first
14 feedback, the second feedback indicating keystroke input ac-
15 cording to the second context.

1 47. (Original) The method of claim 37, further comprising:
2 accepting a backspace keystroke;
3 deleting a keystroke from the keystroke sequence;
4 repeating the steps of determining whether the keystroke sequence pro-
5 duces a valid result in a first context, and, responsive to the key-
6 stroke sequence producing a valid result in the first context, out-
7 putting first feedback, the first feedback indicating keystroke in-
8 put according to the first context; and
9 repeating the steps of determining whether the keystroke sequence pro-
10 duces a valid result in a second context, and, responsive to the
11 keystroke sequence producing a valid result in the second con-
12 text, outputting second feedback concurrently with the first
13 feedback, the second feedback indicating keystroke input ac-
14 cording to the second context.

1 48. (Original) The method of claim 37, wherein the first context comprises ac-
2 cepting input for a direct entry operation.

1 49. (Original) The method of claim 48, wherein the direct entry operation
2 comprises a telephone number direct entry operation.

1 50. (Original) The method of claim 48, wherein determining whether the key-
2 stroke sequence produces a valid result in the first context comprises determining
3 whether all of the accepted keystrokes have a numeric value.

1 51. (Original) The method of claim 37, wherein the first context comprises ac-
2 cepting input for a directory filtering operation, and the second context comprises
3 accepting input for a direct entry operation.

1 52. (Original) A computer-implemented method for concurrently accepting
2 parameters in at least two contexts, the method comprising:

- 3 a) initiating a first string;
- 4 b) accepting a keystroke;
- 5 c) appending a first value of the keystroke to the first string;
- 6 d) determining whether all values in the first string can be con-
7 verted to valid numeric values;
- 8 e) responsive to determining that all values in the first string can be
9 converted to valid numeric values:
10 generating a numeric string corresponding to the first string; and
11 outputting first feedback comprising the numeric string;

- 12 f) determining whether any directory records match the first
13 string; and
- 14 g) responsive to at least one directory record matching the first
15 string, outputting second feedback comprising a list of the at
16 least one directory record matching the first string.

1 53. (Currently amended) The method of claim 52, further comprising repeat-
2 ing b) through g). [[:]]

1 54. (Original) The method of claim 52, further comprising:

- 2 e.1) responsive to determining that at least one value in the first
3 string cannot be converted to a valid numeric value, deleting any
4 previously output first feedback comprising the numeric string.

1 55. (Original) The method of claim 52, further comprising:

- 2 g.1) responsive to no directory records matching the first string, de-
3 leting any previously output second feedback comprising a list
4 of the at least one directory record.

1 56 to 58. (Canceled)

1 59. (Currently amended) A computer-implemented method for filtering a di-
2 rectory having a plurality of records, each record having at least two searchable
3 fields, the method comprising:

4 accepting a character sequence comprising at least one character, each
5 character having a value;
6 in response to each of at least a subset of the characters, iteratively fil-
7 tering a display of the directory by:
8 for each record, determining whether the character sequence
9 matches the record by:
10 comparing the character sequence with at least two fields
11 associated with the record; and
12 designating the record as a match if the character se-
13 quence matches at least one of the fields associated
14 with the record;
15 wherein each field associated with the record comprises at
16 ~~least a portion of at least one~~ selected from the
17 group consisting of:
18 at least one searchable field in the record;
19 at least one field derived from at least one field
20 in the record; and
21 at least one field generated by combining at
22 least two fields in the record; and
23 displaying at least a subset of records for which the determina-
24 tion indicates a match.

1 60 to 62. (Canceled).

1 63. (Currently amended) The method of claim 59, further comprising:
2 accepting an additional character;
3 appending the additional character to the character sequence;
4 for each displayed record, determining whether the character sequence
5 matches the record by:
6 comparing the character sequence with at least two fields
7 associated with the record; and
8 designating the record as a match if the character se-
9 quence matches at least one of the fields associated
10 with the record;
11 wherein each field associated with the record comprises at least
12 ~~a portion of at least~~ one selected from the group consist-
13 ing of:
14 at least one searchable field in the record;
15 at least one field derived from at least one field in the re-
16 cord; and
17 at least one field generated by combining at least two
18 fields in the record; and
19 for each displayed record, responsive to the character sequence not
20 matching, deleting the record from the display.

1 64. (Currently amended) The method of claim 59, further comprising:

2 accepting a backspace character;
3 deleting the last character from the character sequence;
4 for each displayed record, determining whether the character sequence
5 matches the record by:
6 comparing the character sequence with at least two fields
7 associated with the record; and
8 designating the record as a match if the character se-
9 quence matches at least one of the fields associated
10 with the record;
11 wherein each field associated with the record comprises at least
12 ~~a portion of at least~~ one selected from the group consist-
13 ing of:
14 at least one searchable field in the record;
15 at least one field derived from at least one field in the re-
16 cord; and
17 at least one field generated by combining at least two
18 fields in the record; and
19 displaying at least a subset of records for which determination indicates
20 a match.

1 65. (Original) A computer-implemented method for filtering a directory hav-
2 ing a plurality of records, each record having at least two searchable fields, the
3 method comprising:

4 accepting a character sequence comprising at least one character, each
5 character having a value;
6 filtering a directory based on comparison of the accepted character se-
7 quence with at least two searchable fields; and
8 displaying at least a subset of the filtered directory.

1 66. (Original) A system for concurrently accepting parameters in at least two
2 contexts, the system comprising:

3 a character input device comprising a plurality of character input de-
4 vice elements, each character input device element having a first
5 value, and at least a subset of the character input device ele-
6 ments having a second value;

7 a buffer, coupled to the character input device, for storing a keystroke
8 sequence entered on the character input device, the keystroke
9 sequence comprising at least one keystroke;

10 a string handler, coupled to the buffer, for determining whether the
11 keystroke sequence produces a valid result in a first context and
12 for determining whether all of the keystrokes are valid in a sec-
13 ond context;

14 an output device, coupled to the string handler, for:

15 responsive to the keystroke sequence producing a valid result in the
16 first context, outputting first feedback, the first feedback indicat-
17 ing keystroke input according to the first context; and

18 responsive to the keystroke sequence not producing a valid result in the
19 first context and producing a valid result in the second context,
20 outputting second feedback, the second feedback indicating key-
21 stroke input according to the second context.

1 67. (Original) The system of claim 66, further comprising:
2 a directory lookup engine, coupled to the string handler, for, respon-
3 sive to the keystroke sequence producing a valid result in the
4 first context, retrieving a telephone number from a directory re-
5 cord identified by the first value for each keystroke; and
6 a dialer, coupled to the directory lookup engine, for, responsive to the
7 keystroke sequence producing a valid result in the first context,
8 dialing the retrieved telephone number.

1 68. (Original) The system of claim 66, further comprising:
2 a dialer, coupled to the string handler, for, responsive to the keystroke
3 sequence not producing a valid result in the first context and
4 producing a valid result in the second context, dialing a tele-
5 phone number specified by the second value for each keystroke.

1 69. (Original) The system of claim 66, wherein:
2 the output device comprises a display screen;
3 the character input device comprises a keyboard; and

4 each character input device element comprises a key.

1 70. (Original) The system of claim 66, further comprising:

2 a second output device, coupled to the string handler, for, responsive to
3 the keystroke sequence not producing a valid result in the first
4 context and not producing a valid result in the second context,
5 outputting an invalidity indicator.

1 71. (Original) The system of claim 70, wherein the second output device

2 comprises at least one selected from:

3 an auditory output device; and
4 a visual output device.

1 72. (Original) The system of claim 66, wherein, responsive to the keystroke

2 sequence not producing a valid result in the first context and not producing a valid
3 result in the second context, the output device outputs an invalidity indicator.

1 73. (Original) The system of claim 66, wherein the first context comprises ac-

2 cepting input for an iterative directory filtering operation on a plurality of directory
3 records.

1 74. (Original) The system of claim 73, further comprising:

2 a directory filter, coupled to the string handler, for, responsive to the
3 keystroke sequence producing a valid result in the first context,

4 performing the directory filtering operation using the first value
5 for each of the stored keystrokes.

1 75. (Original) The system of claim 66, wherein at least one of the contexts
2 comprises accepting input for a direct entry operation.

1 76. (Original) The system of claim 75, wherein the first context comprises ac-
2 cepting input for a direct entry operation.

1 77. (Original) The system of claim 76, wherein the direct entry operation
2 comprises a telephone number direct entry operation.

1 78. (Original) The system of claim 66, wherein the first context comprises ac-
2 cepting input for a directory filtering operation, and the second context comprises
3 accepting input for a direct entry operation.

1 79. (Original) The system of claim 66, wherein:
2 each first value comprises one selected from the group consisting of a
3 letter and a punctuation symbol; and
4 each second value comprises a number.

1 80. (Original) The system of claim 66, wherein:
2 each first value comprises one selected from the group consisting of a
3 letter and a punctuation symbol; and

4 each second value comprises one selected from the group consisting of
5 a number and a punctuation symbol.

1 81. (Original) The system of claim 66, wherein:

2 responsive to at least one of the keystrokes not being valid in one of the
3 contexts, the string handler determines that the other context is
4 intended.

1 82. (Currently amended) A system for concurrently accepting parameters in
2 at least two contexts, the system comprising:

3 a character input device comprising a plurality of character input de-
4 vices, each character input device having a first value, and at
5 least a subset of the character input devices having a second
6 value;

7 a buffer, coupled to the character input device, for storing a keystroke
8 sequence entered on the character input device, the keystroke
9 sequence comprising at least one keystroke;

10 a string handler, coupled to the buffer, for determining whether the
11 keystroke sequence produces a valid result in a first context and
12 for determining whether all of the keystrokes are valid in a sec-
13 ond context;

14 an output device, coupled to the string handler, for:

responsive to the keystroke sequence producing a valid result in the
first context, outputting first feedback, the first feedback indicating
keystroke input according to the first context; and
responsive to the keystroke sequence producing a valid result in the
second context, outputting second feedback concurrently with
the first feedback, the second feedback indicating keystroke input
according to the second context;
wherein, responsive to the keystroke sequence producing a valid result
in the first context, the system performs a first action corresponding
to the first context, using the first value for each keystroke; and
wherein, responsive to the keystroke sequence producing a valid result
in the second context, the system performs a second action corresponding
to the second context, using the second value for
each keystroke.

83. (Original) The system of claim 82, wherein:

the output device comprises a display screen;
the character input device comprises a keyboard; and
each character input device element comprises a key.

1 84. (Original) The system of claim 83, wherein the display screen outputs the
2 first visual feedback at a first location and outputs the second visual feedback at a
3 second location.

1 85. (Original) The system of claim 82, wherein the first context comprises ac-
2 cepting input for an iterative directory filtering operation on a plurality of directory
3 records.

1 86. (Original) The system of claim 82, wherein at least one of the contexts
2 comprises accepting input for a direct entry operation.

1 87. (Original) The system of claim 86, wherein the first context comprises ac-
2 cepting input for a direct entry operation.

1 88. (Original) The system of claim 87, wherein the direct entry operation
2 comprises a telephone number direct entry operation.

1 89. (Original) The system of claim 82, wherein the first context comprises ac-
2 cepting input for a directory filtering operation, and the second context comprises
3 accepting input for a direct entry operation.

1 90. (Original) A system for concurrently accepting parameters in at least two
2 contexts, the system comprising:
3 a character input device, for accepting a keystroke;

4 a buffer, coupled to the character input device, for initiating a first
5 string and for appending a first value of the keystroke to the first
6 string;
7 a string handler, coupled to the buffer, for determining whether all val-
8 ues in the first string can be converted to valid numeric values;
9 a numeric string generator, coupled to the string handler, for, respon-
10 sive to all values in the first string being convertible to valid nu-
11 meric values, generating a numeric string corresponding to the
12 first string;
13 a directory lookup engine, coupled to the string handler, for, determin-
14 ing whether any directory records match the first string; and
15 an output device, coupled to the numeric string generator and to the di-
16 rectory lookup engine, for:
17 responsive to at least one directory record matching the first string,
18 outputting first feedback comprising a list of the at least one
19 directory record matching the first string; and
20 responsive to no directory records matching the first string and all
21 values in the first string being convertible to valid numeric
22 values, , outputting second feedback comprising the numeric
23 string.

1 91. (Original) The system of claim 90, wherein:

responsive to at least one directory record matching the first string
and all values in the first string being convertible to valid
numeric values, the output device outputs first feedback
comprising a list of the at least one directory record matching
the first string and concurrently outputs second feedback
comprising the numeric string.

92 to 94. (Canceled)

95. (Currently amended) A directory filtering system, comprising:

a directory having a plurality of records, each record having at least

two searchable fields;

a character input device comprising a plurality of character input de-

vice elements, each character input device element having at

least one value;

a buffer, coupled to the character input device, for storing a character

sequence entered on the character input device, the character se-

quence comprising at least one character;

a directory lookup engine, coupled to the directory and to the

buffer, for, for each record, determining whether the

character sequence matches the record by:

comparing the character sequence with at least two fields

associated with the record; and

15 designating the record as a match if the character se-
16 quence matches at least one of the fields associated
17 with the record;
18 wherein each field associated with the record comprises at least a por-
19 tion of at least one selected from the group consisting of:
20 at least one searchable field in the record;
21 at least one field derived from at least one field in the re-
22 cord; and
23 at least one field generated by combining at least two
24 fields in the record; and
25 an output device, coupled to the directory lookup engine, for display-
26 ing at least a subset of records for which the determination indi-
27 cates a match.

1 96 to 98. (Canceled).

1 99. (Original) The system of claim 95, wherein:
2 the output device comprises a display screen;
3 the character input device comprises a keyboard; and
4 each character input device element comprises a key.

1 100. (Original) A system for filtering a directory having a plurality of records,
2 each record having at least two searchable fields, the system comprising:

3 a character input device, for accepting a character sequence comprising
4 at least one character, each character having a value;
5 a directory filter, coupled to the character input device, for filtering a
6 directory based on comparison of the accepted character se-
7 quence with at least two searchable fields; and
8 a display, coupled to the directory filter, for displaying at least a subset
9 of the filtered directory.

1 101. (Original) The system of claim 100, wherein the character input device
2 comprises a keyboard.

1 102. (Currently amended) A computer program product comprising a com-
2 puter-usable medium having computer-readable code embodied therein for concur-
3 rently accepting parameters in at least two contexts, the computer program product
4 comprising:

5 computer-readable program code configured to cause a computer to
6 accept a keystroke sequence comprising at least one keystroke,
7 each keystroke having a first value, and at least a subset of the
8 keystrokes having a second value;

9 computer-readable program code configured to cause a computer to
10 determine whether the keystroke sequence produces a valid re-
11 sult in a first context;

12 computer-readable program code configured to cause a computer to,
13 responsive to the keystroke sequence producing a valid result in
14 the first context, output first feedback, the first feedback indicat-
15 ing keystroke input according to the first context; and
16 computer-readable program code configured to cause a computer to,
17 responsive to the keystroke sequence not producing a valid re-
18 sult in the first context:
19 determine whether the keystroke sequence produces a valid re-
20 sult in a second context; and
21 responsive to the keystroke sequence producing a valid result in
22 the second context, output second feedback, the second
23 feedback indicating keystroke input according to the sec-
24 ond context.

1 103. (Original) The computer program product of claim 102, wherein the first
2 context comprises accepting input for an iterative directory filtering operation on a
3 plurality of directory records.

1 104. (Original) The computer program product of claim 103, further compris-
2 ing:
3 computer-readable program code configured to cause a computer to,
4 responsive to the keystroke sequence producing a valid result in

5 the first context, perform the directory filtering operation using
6 the first value for each of the accepted keystrokes.

1 105. (Original) The computer program product of claim 102, wherein at least
2 one of the contexts comprises accepting input for a direct entry operation.

1 106. (Original) The computer program product of claim 105, wherein the first
2 context comprises accepting input for a telephone number direct entry operation.

1 107. (Original) The computer program product of claim 102, wherein the
2 computer-readable program code configured to cause a computer to determine
3 whether the keystroke sequence produces a valid result in a first context comprises
4 computer-readable program code configured to cause a computer to determine
5 whether all of the accepted keystrokes have a numeric value.

1 108. (Original) The computer program product of claim 102, wherein the first
2 context comprises accepting input for a directory filtering operation, and the second
3 context comprises accepting input for a direct entry operation.

1 109. (Original) The computer program product of claim 102, further compris-
2 ing:

3 computer-readable program code configured to cause a computer to,
4 responsive to at least one of the accepted keystrokes not being

5 valid in one of the contexts, determine that the other context is
6 intended.

1 110. (Original) The computer program product of claim 102, further compris-
2 ing:

3 computer-readable program code configured to cause a computer to,
4 responsive to the keystroke sequence not producing a valid re-
5 sult in one of the contexts, perform an action using the keystroke
6 sequence according to the other context.

1 111. (Currently amended) A computer program product comprising a com-
2 puter-usable medium having computer-readable code embodied therein for concur-
3 rently accepting parameters in at least two contexts, the computer program product
4 comprising:

5 computer-readable program code configured to cause a computer to
6 accept a keystroke sequence comprising at least one keystroke,
7 each keystroke having a first value, and at least a subset of the
8 keystrokes having a second value;

9 computer-readable program code configured to cause a computer to
10 determine whether the keystroke sequence produces a valid re-
11 sult in a first context;

12 computer-readable program code configured to cause a computer to,
13 responsive to the keystroke sequence producing a valid result in

14 the first context, output first feedback, the first feedback indicat-
15 ing keystroke input according to the first context, and to perform
16 a first action corresponding to the first context, using the first
17 value for each keystroke;

18 computer-readable program code configured to cause a computer to
19 determine whether the keystroke sequence produces a valid re-
20 sult in a second context; and
21 computer-readable program code configured to cause a computer to,
22 responsive to the keystroke sequence producing a valid result in
23 the second context, output second feedback, the second feedback
24 indicating keystroke input according to the second context, and
25 to perform a second action corresponding to the second context,
26 using the second value for each keystroke.

1 112. (Original) The computer program product of claim 111, wherein:

2 the computer-readable program code configured to cause a computer
3 to output the first visual feedback comprises computer-readable
4 program code configured to cause a computer to output the first
5 feedback at a first location on a display screen; and
6 the computer-readable program code configured to cause a computer
7 to output the second visual feedback comprises computer-
8 readable program code configured to cause a computer to out-
9 put the second feedback at a second location on a display screen.

1 113. (Original) The computer program product of claim 111, wherein the first
2 context comprises accepting input for an iterative directory filtering operation on a
3 plurality of directory records.

1 114. (Original) The computer program product of claim 111, wherein the first
2 context comprises accepting input for a telephone number direct entry operation.

1 115 to 117. (Canceled)

1 118. (Currently amended) A computer program product comprising a com-
2 puter-usable medium having computer-readable code embodied therein for filtering
3 a directory having a plurality of records, each record having at least two searchable
4 fields, the computer program product comprising:

5 computer-readable program code configured to cause a computer to

6 accept a character sequence comprising at least one character,

7 each character having a value;

8 computer-readable program code configured to cause a com-

9 puter to, for each record, determine whether the character

10 sequence matches the record by:

11 comparing the character sequence with at least two fields

12 associated with the record; and

13 designating the record as a match if the character se-
14 quence matches at least one of the fields associated
15 with the record;
16 wherein each field associated with the record comprises at least a por-
17 tion of at least one selected from the group consisting of:
18 at least one searchable field in the record;
19 at least one field derived from at least one field in the record;
20 and
21 at least one field generated by combining at least two fields in
22 the record; and
23 computer-readable program code configured to cause a computer to
24 display at least a subset of records for which the determination
25 indicates a match.

1 119. (Original) A computer program product comprising a computer-usable
2 medium having computer-readable code embodied therein for filtering a directory
3 having a plurality of records, each record having at least two searchable fields, the
4 computer program product comprising:
5 computer-readable program code configured to cause a computer to
6 accept a character sequence comprising at least one character,
7 each character having a value;

8 computer-readable program code configured to cause a computer to fil-
9 ter a directory based on comparison of the accepted character
10 sequence with at least two searchable fields; and
11 computer-readable program code configured to cause a computer to
12 display at least a subset of the filtered directory.

1 120. (New) The method of claim 1, wherein accepting a keystroke sequence
2 comprises accepting a keystroke sequence entered via a QWERTY keyboard having a
3 plurality of keys, wherein a subset of the keys have secondary numeric values.

1 121. (New) The method of claim 120, wherein the subset of the keys having
2 secondary numeric values are arranged according to a numeric keypad layout.

1 122. (New) The method of claim 37, wherein accepting a keystroke sequence
2 comprises accepting a keystroke sequence entered via a QWERTY keyboard having a
3 plurality of keys, wherein a subset of the keys have secondary numeric values.

1 123. (New) The method of claim 122, wherein the subset of the keys having
2 secondary numeric values are arranged according to a numeric keypad layout.

1 124. (New) The method of claim 52, wherein accepting a keystroke comprises
2 accepting a keystroke entered via a QWERTY keyboard having a plurality of keys,
3 wherein a subset of the keys have secondary numeric values.

1 125. (New) The method of claim 124, wherein the subset of the keys having
2 secondary numeric values are arranged according to a numeric keypad layout.

1 126. (New) The method of claim 59, wherein accepting a character sequence
2 comprises accepting a character sequence entered via a QWERTY keyboard having a
3 plurality of keys, wherein a subset of the keys have secondary numeric values.

1 127. (New) The method of claim 126, wherein the subset of the keys having
2 secondary numeric values are arranged according to a numeric keypad layout.

1 128. (New) The method of claim 65, wherein accepting a character sequence
2 comprises accepting a character sequence entered via a QWERTY keyboard having a
3 plurality of keys, wherein a subset of the keys have secondary numeric values.

1 129. (New) The method of claim 128, wherein the subset of the keys having
2 secondary numeric values are arranged according to a numeric keypad layout.

1 130. (New) The system of claim 66, wherein the character input device com-
2 prises a QWERTY keyboard having a plurality of keys, wherein a subset of the keys
3 have secondary numeric values.

1 131. (New) The system of claim 130, wherein the subset of the keys having
2 secondary numeric values are arranged according to a numeric keypad layout.

1 132. (New) The system of claim 82, wherein the character input device com-
2 prises a QWERTY keyboard having a plurality of keys, wherein a subset of the keys
3 have secondary numeric values.

1 133. (New) The system of claim 132, wherein the subset of the keys having
2 secondary numeric values are arranged according to a numeric keypad layout.

1 134. (New) The system of claim 90, wherein the character input device com-
2 prises a QWERTY keyboard having a plurality of keys, wherein a subset of the keys
3 have secondary numeric values.

1 135. (New) The system of claim 134, wherein the subset of the keys having
2 secondary numeric values are arranged according to a numeric keypad layout.

1 136. (New) The system of claim 95, wherein the character input device com-
2 prises a QWERTY keyboard having a plurality of keys, wherein a subset of the keys
3 have secondary numeric values.

1 137. (New) The system of claim 136, wherein the subset of the keys having
2 secondary numeric values are arranged according to a numeric keypad layout.

1 138. (New) The system of claim 100, wherein the character input device com-
2 prises a QWERTY keyboard having a plurality of keys, wherein a subset of the keys
3 have secondary numeric values.

1 139. (New) The system of claim 138, wherein the subset of the keys having
2 secondary numeric values are arranged according to a numeric keypad layout.

1 140. (New) The computer program product of claim 102, wherein the com-
2 puter-readable program code configured to cause a computer to accept a keystroke
3 sequence comprises computer-readable program code configured to cause a com-
4 puter to accept a keystroke sequence from a QWERTY keyboard having a plurality of
5 keys, wherein a subset of the keys have secondary numeric values.

1 141. (New) The computer program product of claim 140, wherein the subset
2 of the keys having secondary numeric values are arranged according to a numeric
3 keypad layout.

1 142. (New) The computer program product of claim 111, wherein the com-
2 puter-readable program code configured to cause a computer to accept a keystroke
3 sequence comprises computer-readable program code configured to cause a com-
4 puter to accept a keystroke sequence from a QWERTY keyboard having a plurality of
5 keys, wherein a subset of the keys have secondary numeric values.

1 143. (New) The computer program product of claim 142, wherein the subset
2 of the keys having secondary numeric values are arranged according to a numeric
3 keypad layout.

1 144. (New) The computer program product of claim 102, wherein the com-
2 puter-readable program code configured to cause a computer to accept a character
3 sequence comprises computer-readable program code configured to cause a com-
4 puter to accept a character sequence from a QWERTY keyboard having a plurality of
5 keys, wherein a subset of the keys have secondary numeric values.

1 145. (New) The computer program product of claim 144, wherein the subset
2 of the keys having secondary numeric values are arranged according to a numeric
3 keypad layout.

1 146. (New) The computer program product of claim 119, wherein the com-
2 puter-readable program code configured to cause a computer to accept a character
3 sequence comprises computer-readable program code configured to cause a com-
4 puter to accept a character sequence from a QWERTY keyboard having a plurality of
5 keys, wherein a subset of the keys have secondary numeric values.

1 147. (New) The computer program product of claim 146, wherein the subset
2 of the keys having secondary numeric values are arranged according to a numeric
3 keypad layout.